

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	0	"20030063556".pn.	USPAT	OR	OFF	2007/05/15 20:55
L2	0	"200300063556".pn.	USPAT	OR	OFF	2007/05/15 20:55
L3	2	peak adj power and espar	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 20:59
S84	33	(chip near4 interleav\$3) and ofdm	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/14 08:58
S85	2085	375/261	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:09
S86	45	(ofdm or ("multi-carrier") or (multi adj carrier)) and mapp\$3 and ("de-mapping" or (de adj mapp\$3)) and (peak with power)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:09
S87	3	S86 and S85	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:09
S88	44	(ofdm or ("multi-carrier") or (multi adj carrier)) and mapp\$3 and ("de-mapping" or (de adj mapp\$3)) and (quadrature) and "in-phase"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:09
S89	1113	oFDM with (channel adj estimat\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:09

EAST Search History

S90	88	oFDM with (channel adj estimat\$4) and mapp\$3 with subcarrier	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:09
S91	4	oFDM with (channel adj estimat\$4) with mapp\$3 with subcarrier	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:09
S92	7	oFDM with (channel adj estimat\$4) same mapp\$3 with subcarrier	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:09
S93	0	((ofdm or ("multi-carrier") or (multi adj carrier)) and mapp\$3 and ("de-mapping" or (de adj mapp\$3)) and ((quadrature or "in-phase") with (zero or "0"))).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:09
S94	467	375/98	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:10
S95	2	((ofdm or ("multi-carrier") or (multi adj carrier)) and mapp\$3 and ("demapping" or (de adj mapp\$3)) and ((quadrature or "in-phase") with (zero or "0"))).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:10
S96	2829	375/347	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:10
S97	2085	375/261	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:10

EAST Search History

S98	1	"10/396118"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:10
S99	223	(ofdm or ("multi-carrier") or (multi adj carrier)) and mapp\$3 and ("de-mapping" or (de adj mapp\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:10
S10 0	1	S90 and S99	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:10
S10 1	1180	375/298	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:10
S10 2	1	10/070549	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:10
S10 3	0	ofdm with mapping with "re-mapping"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:10
S10 4	2	"5786844".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:10
S10 5	2	"5179578".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:10

EAST Search History

S10 6	28	ofdm with mapping with "de-mapping"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:10
S10 7	28052	kazumi.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:10
S10 8	20	kazumi.in. and ofdm.ti.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:10
S10 9	22	sato.in. and mapping.ti.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:10
S11 0	3	kazumi.in. and mapping.ti.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:10
S11 1	41	(ofdm or ("multi-carrier") or (multi adj carrier)) with mapp\$3 with ("de-mapping" or (de adj mapp\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:10
S11 2	5	(ofdm or ("multi-carrier") or (multi adj carrier)) with mapp\$3 with ("de-mapping" or (de adj mapp\$3)) and (peak with power)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:10
S11 3	21	"727885"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:10

EAST Search History

S11 4	2	"5761190".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:10
S11 5	5	ofdm and arq and (PAR or pmepr) and FEC	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:10
S11 6	40	ofdm with arq	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:10
S11 7	72	ofdm same arq	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:10
S11 8	5	(ofdm or ("multi-carrier") or (multi adj carrier)) and mapp\$3 and ("de-mapping" or (de adj mapp\$3)) and (PAR or PMEPR)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:10
S11 9	2	ofdm same arq and (PAR or pmepr)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:10
S12 0	8	ofdm and arq and (PAR or pmepr)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:10
S12 1	2	"5319672".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:10

EAST Search History

S12 2	17	(ofdm or ("multi-carrier") or (multi adj carrier)) and mapp\$3 and ("de-mapping" or (de adj mapp\$3)) and (PAR or PMEPR or (peak adj power))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:10
S12 3	45	(ofdm or ("multi-carrier") or (multi adj carrier)) and mapp\$3 and ("de-mapping" or (de adj mapp\$3)) and peak with power	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:10
S12 4	76	(ofdm or ("multi-carrier") or (multi adj carrier)) same mapp\$3 same ("de-mapping" or (de adj mapp\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:10
S12 5	223	(ofdm or ("multi-carrier") or (multi adj carrier)) and mapp\$3 and ("de-mapping" or (de adj mapp\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:10
S12 6	45	(ofdm or ("multi-carrier") or (multi adj carrier)) and mapp\$3 and ("de-mapping" or (de adj mapp\$3)) and (peak with power)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:10
S12 7	5	(ofdm or ("multi-carrier") or (multi adj carrier)) and mapp\$3 and ("de-mapping" or (de adj mapp\$3)) and (peak with power with (reduction or suppression))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:10
S12 8	5	S86 and S96	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:10
S12 9	1	((ofdm or ("multi-carrier") or (multi adj carrier)) and mapp\$3 and ("de-mapping" or (de adj mapp\$3)) and (quadrature) and "in-phase"). clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:10

EAST Search History

S13 0	2	S86 and S101	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:10
S13 1	145	(ofdm or ("multi-carrier") or (multi adj carrier)) and mapp\$3 and ("de-mapping" or (de adj mapp\$3)) and (quadrature)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:10
S13 2	2	"6058146".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:10
S13 3	11	((ofdm or ("multi-carrier") or (multi adj carrier)) and mapp\$3 and ("demapping" or (de adj mapp\$3)) and (((quadrature or "in-phase") with (zero or "0")) or QPSK)).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:10
S13 4	38	(chip near4 interleav\$3) and ofdm	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:10
S13 5	10	"1211835"	USPAT	OR	OFF	2007/05/15 18:14
S13 6	1	"5179578".pn.	USPAT	OR	OFF	2007/05/15 18:19

[Sign in](#)

Google

[Web](#) [Images](#) [Video](#) [News](#) [Maps](#) [more »](#)

"peak power" espar

Search

[Advanced Search](#)
[Preferences](#)

Web

Results 1 - 10 of about 125 for "**peak power**" espar. (0.25 seconds)

[PDF] [A method to reduce the peak power with signal space expansion ...](#)

File Format: PDF/Adobe Acrobat

that case, the **ESPAR** can reduce the **peak power** of ... that the **peak power** of **ESPAR** is much less than the conventional one. Especially, when the number of ...

ieeexplore.ieee.org/iel5/6849/18414/00851488.pdf - [Similar pages](#)

[PDF] [A method to reduce the peak power with signal space expansion ...](#)

File Format: PDF/Adobe Acrobat

We propose a new method called **ESPAR**. (Expansion of the signal Space for Peak to Average ratio Reduction) in order to reduce the **peak power**. **ESPAR** ...

[ieeexplore.ieee.org/iel5/6849/18414/00851488.pdf?](http://ieeexplore.ieee.org/iel5/6849/18414/00851488.pdf?tp=&arnumber=851488&isnumber=18414)

[tp=&arnumber=851488&isnumber=18414](#) - [Similar pages](#)

[[More results from ieeexplore.ieee.org](#)]

[Research \(keywords\) Wireless Ad Hoc Network Array Signal ...](#)

J. Cheng, Y. Kamiya and T. Ohira, "Adaptive beamforming of **ESPAR** antenna using ... A.

Maeda, T. Fujii, Y. Kamiya and Y. Suzuki, "**Peak Power** Reduction Using ...

www.tuat.ac.jp/~kamiya/research_e.htm - 14k - [Cached](#) - [Similar pages](#)

[Block segmentation procedure for reduction of peak-to-average ...](#)

"A Method to Reduce the **Peak Power** with Signal Space Expansion (**ESPAR**) for OFDM System". Vehicular Technology Conference Proceedings 2000, IEEE 51.sup.st ...

www.freepatentsonline.com/20030063556.html - 128k - [Cached](#) - [Similar pages](#)

[PDF] [Chapter 19 REDUCING PAR AND PICR OF AN OFDM SIGNAL](#)

File Format: PDF/Adobe Acrobat

peak power with signal space expansion (**ESPAR**) for OFDM system," in IEEE. Vehicular Technology Conference, pp. 405-409, 2000. ...

www.springerlink.com/index/v02x26686n4m8635.pdf - [Similar pages](#)

[Science Links Japan | A Study on Distance in OFDM Symbols using ...](#)

Abstract; We have already proposed **ESPAR**(Expansion of the signal Space for Peak to Average ratio Reduction) which is a **peak power** reduction scheme for the ...

sciencelinks.jp/j-east/article/200021/000020002100A0811678.php - 7k - Supplemental

Result - [Cached](#) - [Similar pages](#)

[PDF] [COMMISSION C : Radio Signals and Systems \(Nov. '01 - Oct. '04\)](#)

File Format: PDF/Adobe Acrobat - [View as HTML](#)

Fujii, T. and M. Nakagawa [2003], **Peak power** reduction for MC-CDMA using cluster ... the MUSIC algorithm were found applicable to the **ESPAR** system [Plapous, ...

www.rish.kyoto-u.ac.jp/ursi/report/RPT05/PDF/C05.pdf - [Similar pages](#)

[November 2000](#)

... that were optimized for **peak power**, and were inefficient at lower output ... He had an **Espar** Combo Kit. He would brag about shutting off his engine, ...

www.landlinemag.com/Archives/2000/nov2000/equipment_Economy.html - 17k -

[Cached](#) - [Similar pages](#)

[PDF] [Peak-to-Average Ratio of CDMA Systems](#)

File Format: PDF/Adobe Acrobat

[5] Sumasu, A., et al., "A Method to Reduce the **Peak Power** with Signal Space Expansion. (**ESPAR**) for OFDM System," IEEE 51st Vehicular Technology Conf. ...
www.artechhouse.com/GetBLOB.asp?Name=Wang302-ch05.pdf - [Similar pages](#)

[PDF] Section 1

File Format: PDF/Adobe Acrobat - [View as HTML](#)

the largest suppliers in North America is **Espar** Heater Systems, ... using off-**peak power**, which removes gas and oil from the generating mix). Further, more ...
www.osti.gov/bridge/servlets/purl/771201-W46BqD/native/771201.pdf - [Similar pages](#)

Result Page: [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) **[Next](#)**

Download [Google Pack](#): free essential software for your PC

"peak power" espar

Search

[Search within results](#) | [Language Tools](#) | [Search Tips](#) | [Dissatisfied? Help us improve](#)

[Google Home](#) - [Advertising Programs](#) - [Business Solutions](#) - [About Google](#)

©2007 Google

[Sign in](#)

Google

[Web](#) [Images](#) [Video](#) [News](#) [Maps](#) [more »](#)

multicarrier "symbol pattern"

Search

[Advanced Search](#)
[Preferences](#)**Web**Results 1 - 10 of about 192 for multicarrier "**symbol pattern**". (0.27 seconds)**METHOD FOR POWER DETECTION OF MULTICARRIER SIGNALS, RADIO ...**

The carriers are used for transmitting information input to the **multicarrier** transmitter. More specifically, a certain baseband **symbol pattern** or sequence ...

www.freepatentsonline.com/EP1368917.html - 43k - [Cached](#) - [Similar pages](#)

Allocation of pilot signals for multicarrier transmission - Patent ...

A transmitter for **multi-carrier** transmission according to claim 1, wherein the pilot symbol allocator changes the length of a pilot **symbol pattern** based on ...

www.freepatentsonline.com/EP1363434.html - 56k - [Cached](#) - [Similar pages](#)

[[More results from www.freepatentsonline.com](#)]

[Paper] A Pattern Recognition Approach for OFDM Frame ...

This paper presents a novel approach for a **multi-carrier** software radio ... a pilot **symbol pattern** inserted before the start of an OFDM data frame. ...

www.actapress.com/PDFViewer.aspx?paperId=15128 - [Similar pages](#)

(WO/2002/005467) MULTI-CARRIER COMMUNICATION DEVICE AND PEAK POWER ...

Title:, **MULTI-CARRIER COMMUNICATION DEVICE AND PEAK POWER SUPPRESSING METHOD** ... in decreasing order of the peak power from the **symbol pattern** of the space.

...

www.wipo.org/pctdb/en/wo.jsp?wo=2002005467 - 39k - [Cached](#) - [Similar pages](#)

Assembly for franking postal matter, and multi-carrier shipping ...

Assembly for franking postal matter, and **multi-carrier** shipping system - US ... The data that assign the representative **symbol pattern** to a defined date are ...

www.patentstorm.us/patents/5699258-description.html - 52k - [Cached](#) - [Similar pages](#)

Communication method, base station and terminal apparatus - US ...

A communication method for carrying out communication in a **multi-carrier** format ... data generating circuit 101 to a **symbol pattern** storing circuit 102. ...

www.patentstorm.us/patents/6195341-description.html - 79k - [Cached](#) - [Similar pages](#)

[[More results from www.patentstorm.us](#)]

EETimes.com - Wireless Infrastructure: OFDM shoulders heavy RF traffic

Basically, OFDM is the concept of **multicarrier** communications, ... A known **symbol pattern** is multiplied with the transmitted data to reduce the peak power ...

www.commsdesign.com/design_corner/showArticle.jhtml?articleID=16502669 - 54k -

[Cached](#) - [Similar pages](#)

EP1211835 Matsushita european software patent - Multi-carrier ...

[0095] Thus, the **multi-carrier** communication apparatus of this embodiment allows accurate decision of a **symbol pattern** including symbols with amplitude "0". ...

gauss.ffii.org/PatentView/EP1211835 - 162k - [Cached](#) - [Similar pages](#)

[PDF] Pilot-symbol aided channel estimation in spatially correlated ...

File Format: PDF/Adobe Acrobat

A novel pilot-**symbol pattern** is firstly proposed for this mul- ... **multi-carrier** systems the receive signal after **multi-carrier** ...

ieeexplore.ieee.org/iel5/9623/30410/01399912.pdf - [Similar pages](#)

[esp@cenet claims view](#)

demodulating means for obtaining reception data from the decided received **symbol**

pattern. 16. A **multi-carrier** communication apparatus comprising: ...

v3.espacenet.com/textclam?IDX=EP1211835&QPN=EP1211835 - 42k - Supplemental

Result - [Cached](#) - [Similar pages](#)

Result Page: [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) **[Next](#)**

Try [Google Desktop](#): search your computer as easily as you search the web.

[Search within results](#) | [Language Tools](#) | [Search Tips](#) | [Dissatisfied?](#) [Help us improve](#)

[Google Home](#) - [Advertising Programs](#) - [Business Solutions](#) - [About Google](#)

©2007 Google

[Sign in](#)

Google

[Web](#) [Images](#) [Video](#) [News](#) [Maps](#) [more »](#)

multicarrier "symbol pattern" quadrature

Search

[Advanced Search](#)
[Preferences](#)**Web**Results 1 - 10 of about 84 for **multicarrier "symbol pattern" quadrature**. (0.37 seconds)**[Paper] A Pattern Recognition Approach for OFDM Frame ...**

This paper presents a novel approach for a **multi-carrier** software radio ... a pilot **symbol pattern** inserted before the start of an OFDM data frame. ...

www.actapress.com/PDFViewer.aspx?paperId=15128 - [Similar pages](#)

[Paper] A Novel Non Data-Aided Symbol Timing Recovery for OFDM Systems

An other method is to transmit training symbols (known **symbol pattern** used to ... component and the imaginary part represents the **quadrature** component. ...

www.actapress.com/PDFViewer.aspx?paperId=13218 - [Similar pages](#)

Multi-carrier communication device and peak power suppressing ...

[0134] Next, an example of **symbol pattern** decision operation by signal decision ... component and **quadrature** component set to "0", allowing **multi-carrier** ...

www.freepatentsonline.com/20020150038.html - 152k - [Cached](#) - [Similar pages](#)

TRANSMISSION POWER CONTROL METHOD FOR OFDM-CDMA SYSTEM AND ...

[0002] **Multicarrier** modulation schemes have become the focus of attention as ... [0064] A pilot **symbol pattern** generator 77a outputs the position vector ...

www.freepatentsonline.com/EP1551115.html - 62k - [Cached](#) - [Similar pages](#)

[[More results from www.freepatentsonline.com](#)]

EETimes.com - Wireless Infrastructure: OFDM shoulders heavy RF traffic

Basically, OFDM is the concept of **multicarrier** communications, ... A known **symbol pattern** is multiplied with the transmitted data to reduce the peak power ...

www.commsdesign.com/design_corner/showArticle.jhtml?articleID=16502669 - 54k -

[Cached](#) - [Similar pages](#)

esp@cenet claims view

demodulating means for obtaining reception data from the decided received **symbol pattern**. 16. A **multi-carrier** communication apparatus comprising: ...

v3.espacenet.com/textclamd?IDX=EP1211835&QPN=EP1211835 - 42k - Supplemental

Result - [Cached](#) - [Similar pages](#)

EP1211835 Matsushita european software patent - Multi-carrier ...

[0028] A pre-conversion **symbol pattern** is converted by pattern conversion ... and **quadrature** component set to "0", and can thereby carry out **multi-carrier** ...

gauss.ffii.org/PatentView/EP1211835 - 162k - [Cached](#) - [Similar pages](#)

[PDF] Robust non data-aided symbol synchronization technique for OFDM ...

File Format: PDF/Adobe Acrobat

to transmit training symbols (known **symbol pattern** ... of S(t) represent the in phase and the **quadrature** components respectively. ...

ieeexplore.ieee.org/iel5/9057/28743/01290375.pdf - [Similar pages](#)

[PDF] On Diversity Reception Of Narrowband 16 STAR-QAM In Fast Rician ...

File Format: PDF/Adobe Acrobat

In employing the four-**symbol pattern** technique described ... [7] P. B. Kennington, R. J. Wilkinson, and J. D. Marvill, "A **multi-carrier** ...

ieeexplore.ieee.org/iel3/25/14240/00653066.pdf?arnumber=653066 - [Similar pages](#)

Frequency diversity transmitter and receiver - US Patent 5504783

In the case of **multicarrier**, signals transmitted from a given station with ... of the **symbol pattern** candidates from one point in time to the next, ...

www.patentstorm.us/patents/5504783-description.html - 89k - [Cached](#) - [Similar pages](#)

Result Page: [1](#) [2](#) [3](#) [4](#) [5](#) **[Next](#)**

Try [Google Desktop](#): search your computer as easily as you search the web.

[Search within results](#) | [Language Tools](#) | [Search Tips](#) | [Dissatisfied?](#) [Help us improve](#)

[Google Home](#) - [Advertising Programs](#) - [Business Solutions](#) - [About Google](#)

©2007 Google

[Sign in](#)

Google

[Web](#) [Images](#) [Video](#) [News](#) [Maps](#) [more »](#)

multicarrier "symbol pattern" quadrature peak

Search

[Advanced Search](#)
[Preferences](#)**Web**Results 1 - 10 of about 49 for multicarrier "**symbol pattern**" quadrature peak. (0.44 seconds)**Multi-carrier communication device and peak power suppressing ...**

[0068] A pre-conversion **symbol pattern** is converted by pattern conversion ... and **quadrature** component set to "0", and can thereby carry out **multi-carrier** ...
www.freepatentsonline.com/20020150038.html - 152k - [Cached](#) - [Similar pages](#)

MULTI-CARRIER COMMUNICATION DEVICE AND PEAK POWER SUPPRESSING ...

received **symbol pattern** deciding means for deciding a received **symbol** ... and **quadrature** component set to "0", and can thereby carry out **multi-carrier** ...
www.freepatentsonline.com/EP1211835.html - 153k - [Cached](#) - [Similar pages](#)
[[More results from www.freepatentsonline.com](#)]

EETimes.com - Wireless Infrastructure: OFDM shoulders heavy RF traffic

Basically, OFDM is the concept of **multicarrier** communications, ... the transmitted data to reduce the **peak** power and the same **symbol pattern** is multiplied ...
www.commsdesign.com/design_corner/showArticle.jhtml?articleID=16502669 - 54k - [Cached](#) - [Similar pages](#)

[Paper] A Pattern Recognition Approach for OFDM Frame ...

This paper presents a novel approach for a **multi-carrier** software radio ... a pilot **symbol pattern** inserted before the start of an OFDM data frame. ...
www.actapress.com/PDFViewer.aspx?paperId=15128 - [Similar pages](#)

EP1211835 Matsushita european software patent - Multi-carrier ...

Software Patent: **Multi-carrier** communication device and **peak** power suppressing method ... [0028] A pre-conversion **symbol pattern** is converted by pattern ...
gauss.ffii.org/PatentView/EP1211835 - 162k - [Cached](#) - [Similar pages](#)

EP838106 Ericsson european software patent - Dual mode satellite ...

The satellite's **multi-carrier** power amplifiers thus need to allocate a smaller ... a known **symbol pattern** into said coded information for transmission. ...
gauss.ffii.org/PatentView/EP838106 - 118k - [Cached](#) - [Similar pages](#)

Synchronization of OFDM signals - US Patent 6111919

Multicarrier modulation transmission system with variable delay ... computes cross-correlation values between a stored temporal **symbol pattern** and a ...
www.patentstorm.us/patents/6111919-description.html - 59k - [Cached](#) - [Similar pages](#)

Frequency diversity transmitter and receiver - US Patent 5504783

In the case of **multicarrier**, signals transmitted from a given station with ... of the **symbol pattern** candidates from one point in time to the next, ...
www.patentstorm.us/patents/5504783-description.html - 89k - [Cached](#) - [Similar pages](#)
[[More results from www.patentstorm.us](#)]

[PDF] OFDM Communications System.qxd

File Format: PDF/Adobe Acrobat

The concept of **multicarrier** (MC) communications uses a form of FDM ... **peak** powers. A known **symbol pattern** is multiplied with the transmitted data to ...
www.wi-lan.com/library/whitepaper_ofdm_comms.pdf - [Similar pages](#)

[esp@cenet claims view](#)

MULTI-CARRIER COMMUNICATION DEVICE AND PEAK POWER SUPPRESSING METHOD ... of at least one of the in-phase component and **quadrature** component set to "0"; and ...
v3.espacenet.com/textclam?IDX=EP1211835&QPN=EP1211835 - 42k - Supplemental Result - [Cached](#) - [Similar pages](#)

Result Page: [1](#) [2](#) [3](#) [4](#) **[Next](#)**

Download [Google Pack](#): free essential software for your PC

[Search within results](#) | [Language Tools](#) | [Search Tips](#) | [Dissatisfied?](#) [Help us improve](#)

[Google Home](#) - [Advertising Programs](#) - [Business Solutions](#) - [About Google](#)

©2007 Google

RESULT LIST

1 result found in the Worldwide database for:

EP1211835 as the publication number

(Results are sorted by date of upload in database)

**1 MULTI-CARRIER COMMUNICATION DEVICE AND PEAK POWER
SUPPRESSING METHOD**

Inventor: SUMASU ATSUSHI (JP); KATO OSAMU (JP); Applicant: MATSUSHITA ELECTRIC IND CO LTD (JP)
(+4)

EC: H04L27/26M2; H04L27/34C1

IPC: **H04L27/26; H04L27/34; H04L27/26** (+2)

Publication info: **EP1211835** - 2002-06-05

Data supplied from the esp@cenet database - Worldwide

RESULT LIST

1 result found in the Worldwide database for:

EP727885 as the publication number

(Results are sorted by date of upload in database)

1 OFDM broadcast wave receiver

Inventor: YAMAUCHI KEIICHI (JP)

Applicant: PIONEER ELECTRONIC CORP (JP)

EC: H04H1/00D4; H04L27/00M; (+1)

IPC: *H04H1/00; H04L27/00; H04L27/26* (+5)

Publication Info: **EP0727885** - 1996-08-21

Data supplied from the **esp@cenet** database - Worldwide

OFDM broadcast wave receiver

Publication number: EP0727885

Publication date: 1996-08-21

Inventor: YAMAUCHI KEIICHI (JP)

Applicant: PIONEER ELECTRONIC CORP (JP)

Classification:

- International: H04H1/00; H04L27/00; H04L27/26; H04H1/00;
H04L27/00; H04L27/26; (IPC1-7): H04J1/00; H04J11/00

- European: H04H1/00D4; H04L27/00M; H04L27/26M5

Application number: EP19960301113 19960220

Priority number(s): JP19950031253 19950220; JP19950031254 19950220;
JP19950031255 19950220; JP19950031999 19950221

Also published as:



US5761190 (A1)

EP0727885 (A3)

Cited documents:



WO9216063

WO9210043

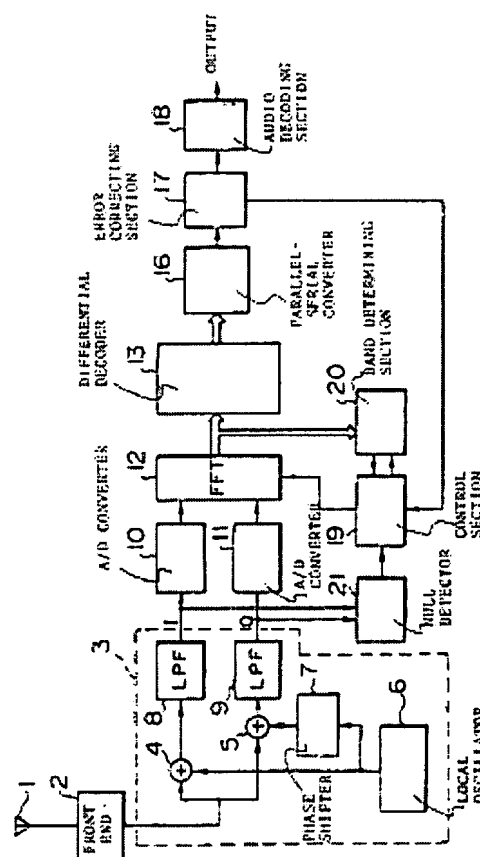
JP6326739

Report a data error here

Abstract of EP0727885

The invention relates to an OFDM (Orthogonal Frequency Division Multiplex) broadcast wave receiver for receiving an OFDM broadcast wave. Demodulation means are provided for performing OFDM demodulation of the received signal to provide signals of a plurality of frequencies. The receiver includes means for automatically discriminating (20) whether the received signal is of a wide band or a narrow band by determining if a carrier signal having a predetermined frequency is present among the signals of a plurality of frequencies. Means for further provided for controlling (19) the demodulating operation of demodulation means in accordance with the discrimination result to thereby acquire a demodulated signal.

FIG. 1



Data supplied from the esp@cenet database - Worldwide

RESULT LIST

1 result found in the Worldwide database for:

EP933904 as the publication number

(Results are sorted by date of upload in database)

1 Data transmission using a combination of modulation types

Inventor: MURAKAMI YUTAKA (JP); ORIHASHI
MASAYUKI (JP); (+2)

Applicant: MATSUSHITA ELECTRONICS CORP (JP)

EC: H04L27/34

IPC: *H04L27/34*; *H04L27/34*; (IPC1-7): H04L27/34

Publication info: **EP0933904** - 1999-08-04

Data supplied from the **esp@cenet** database - Worldwide

scirus
for scientific information only

scirus
free science search engine

Find

☒ All Journal Sources

☒ All Web Sources

About Us

Newsroom

Advisory Board

Submit Web Site

Help

Contact Us

Basic Search

[Advanced Search](#) [Search Preferences](#)

multicarrier "symbol pattern" quadrature peak

Search

☒ Journal sources ☒ Preferred Web sources ☒ Other Web sources ☐ Exact phrase

Searched for:: :All of the words: **multicarrier** AND **"symbol pattern"** AND **quadrature** AND **peak**

Found:: : **7 total** | **0 journal results** | **6 preferred web results** | **1 other web results**

Sort by:: : **relevance** | **date**

Save checked results

Email checked results

Export checked results

☐ 1. [PhDThesis.dvi](#) [PDF-154K]

Dec 2005

...of the OFDM signal for a **multicarrier** system with $N = 8$ and $N \dots 16$ 2.5 Scheme of the **multicarrier** system based on IDFT/DFT...of the OFDM signal for a **multicarrier** system with $N = 3$ subcarriers...16 and for the training **symbol pattern** $p = [1, 1, 1, 1]T \dots$
[http://www.die.unina.it/dottoratoIET/tesi/Fusco_Tesi.p...]

[similar results](#)

☐ 2. [End-to-end transmission techniques for a processing satellite system](#)

Wright, David A. / Jue, Reginald (NMI) / Linsky, Stuart T. / Nivens, Dennis A., EUROPEAN PATENT, Apr 2001

(BACKGROUND OF THE INVENTION) This invention relates to processing communication satellite systems and more particularly relates to coordination between the uplinks and downlinks of such systems. A multibeam processing satellite system requires a comprehensive and consistent approach to its


Full text available at patent office. For more in-depth searching go to  LexisNexis[®]
[view all 6 results from Patent Offices](#)

[similar results](#)

☐ 3. [Uplink transmission and reception techniques for a processing communication satellite](#)

Wright, David A. / Linsky, Stuart T. / Wilcoxson, Donald C. / Perahia, Eldad / Caso, Gregory S., EUROPEAN PATENT APPLICATION, Apr 2001

Uplink transmission and reception techniques for a processing satellite including one or more earth terminals 400 connected to receive ATM data cells. One or more encoders 418 are connected to coordinate four data cells with an error correction code to ...

Full text available at patent office. For more in-depth searching go to  LexisNexis[®]
[view all 6 results from Patent Offices](#)

[similar results](#)

☐ 4. [Uplink transmission and reception techniques for a processing satelliteation satellite](#)

Wright, David A. / Linsky, Stuart T. / Wilcoxson, Donald C. / Perahia, Eldad / Caso, Gregory S., UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT, Oct 2002

...or EOW) signaling is based on usage of a traffic slot in a ZH type channel and has a burst structure comprised of a 320 **symbol pattern** derived from a maximal length shift

register sequence to which is postfixed a short coded message that identifies the terminal...

Full text available at patent office. For more in-depth searching go to  LexisNexis
[view all 6 results from Patent Offices](#)
[similar results](#)

☐ 5. [End-to-end transmission techniques for a processing satellite system](#)

Wright, David A. / Jue, Reginald / Linsky, Stuart T. / Nivens, Dennis A., UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT, Apr 2002

...or EOW) signaling is based on usage of a traffic slot in a ZH type channel and has a burst structure comprised of a 320 **symbol pattern** derived from a maximal length shift register sequence to which is postfixed a short coded message that identifies the terminal...

Full text available at patent office. For more in-depth searching go to  LexisNexis
[view all 6 results from Patent Offices](#)
[similar results](#)

☐ 6. [DUAL MODE SATELLITE/CELLULAR TERMINAL](#)

DENT, Paul W., PATENT COOPERATION TREATY APPLICATION, Jan 1997

...downlink direction (base to mobile), which leads to problems of high **peak** power requirements from the mobile phone in a satellite system...than the corresponding downlink TDMA formats, thus reducing the **peak**-to-mean power ratio needed in the mobile terminal. When practicing...

Full text available at patent office. For more in-depth searching go to  LexisNexis
[view all 6 results from Patent Offices](#)
[similar results](#)

☐ 7. [Frequency diversity transmitter and receiver](#)

Tomisato, Shigeru / Suzuki, Hiroshi, UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT, Apr 1996

...comprising a low-pass filter 72 and a **quadrature** modulator 73. Mutually different carrier frequencies are supplied to the **quadrature** modulators 73. A switching circuit 71...coded chip signals are modulated by the **quadrature** modulators 73 and combined by the combiner...use a training signal with a single **peak** autocorrelation function. The training...

Full text available at patent office. For more in-depth searching go to  LexisNexis
[view all 6 results from Patent Offices](#)
[similar results](#)



[Downloads](#) | [Subscribe to News Updates](#) | [User Feedback](#) | [Advertising](#)
[Tell A Friend](#) | [Terms Of Service](#) | [Privacy Policy](#) | [Legal](#)

Powered by FAST © Elsevier 2007

SCIRUS
for scientific information only

SCIRUS
free science search engine

Find

☒ All Journal Sources

☒ All Web Sources

About Us

Newsroom

Advisory Board

Submit Web Site

Help

Contact Us

Basic Search

[Advanced Search](#) [Search Preferences](#)

multicarrier AND "symbol pattern" AND quadrature AN

Search

☒ Journal sources ☒ Preferred Web sources ☒ Other Web sources ☐ Exact phrase

Searched for:: :All of the words: **multicarrier AND "symbol pattern" AND quadrature AND peak**

Found:: : **4 total** | **0 journal results** | **4 preferred web results** | **0 other web results**

Sort by:: : **relevance** | **date**

Save checked results

Email checked results

Export checked results

1. [End-to-end transmission techniques for a processing satellite system](#)
Wright, David A. / Jue, Reginald (NMI) / Linsky, Stuart T. / Nivens, Dennis A., EUROPEAN PATENT, Apr 2001
(BACKGROUND OF THE INVENTION) This invention relates to processing communication satellite systems and more particularly relates to coordination between the uplinks and downlinks of such systems. A multibeam processing satellite system requires a comprehensive and consistent approach to its
Full text available at patent office. For more in-depth searching go to LexisNexis™
[view all 4 results from Patent Offices](#)
[similar results](#)
2. [Uplink transmission and reception techniques for a processing communication satellite](#)
Wright, David A. / Linsky, Stuart T. / Wilcoxson, Donald C. / Perahia, Eldad / Caso, Gregory S., EUROPEAN PATENT APPLICATION, Apr 2001
Uplink transmission and reception techniques for a processing satellite including one or more earth terminals 400 connected to receive ATM data cells. One or more encoders 418 are connected to coordinate four data cells with an error correction code to ...
Full text available at patent office. For more in-depth searching go to LexisNexis™
[view all 4 results from Patent Offices](#)
[similar results](#)
3. [DUAL MODE SATELLITE/CELLULAR TERMINAL](#)
DENT, Paul W., PATENT COOPERATION TREATY APPLICATION, Jan 1997
...downlink direction (base to mobile), which leads to problems of high **peak** power requirements from the mobile phone in a satellite system...than the corresponding downlink TDMA formats, thus reducing the **peak**-to-mean power ratio needed in the mobile terminal. When practicing...
Full text available at patent office. For more in-depth searching go to LexisNexis™
[view all 4 results from Patent Offices](#)
[similar results](#)
4. [Frequency diversity transmitter and receiver](#)
Tomisato, Shigeru / Suzuki, Hiroshi, UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT, Apr 1996
...comprising a low-pass filter 72 and a **quadrature** modulator 73. Mutually different

Dis-
mi-
pal
Or
Al
F

carrier frequencies are supplied to the **quadrature** modulators 73. A switching circuit 71...coded chip signals are modulated by the **quadrature** modulators 73 and combined by the combiner...use a training signal with a single **peak** autocorrelation function. The training...

Full text available at patent office. For more in-depth searching go to  LexisNexis[®]
[view all 4 results from Patent Offices](#)
[similar results](#)



[Downloads](#) | [Subscribe to News Updates](#) | [User Feedback](#) | [Advertising](#)
[Tell A Friend](#) | [Terms Of Service](#) | [Privacy Policy](#) | [Legal](#)

Powered by FAST © Elsevier 2007

SCIRUS
for scientific information only

SCIRUS
free science search engine

☒ All Journal Sources

☒ All Web Sources

[About Us](#)

[Newsroom](#)

[Advisory Board](#)

[Submit Web Site](#)

[Help](#)

[Contact Us](#)

Basic Search

[Advanced Search](#) [Search Preferences](#)

multicarrier AND "symbol pattern" AND quadrature AN

☒ Journal sources ☒ Preferred Web sources ☒ Other Web sources ☐ Exact phrase

Sorry, your search has not produced any results. Before searching again, using the same or similar keywords, you may find it helpful to:

- check the selected sources, information types and subject areas, the selection may not contain results matching your query
 - check the spelling of all words
 - spell words in a different way, for example using American spelling
 - write abbreviations and acronyms in full
 - use alternative words that have the same meaning
 - search using fewer or more general words
-

[Downloads](#) | [Subscribe to News Updates](#) | [User Feedback](#) | [Advertising](#)
[Tell A Friend](#) | [Terms Of Service](#) | [Privacy Policy](#) | [Legal](#)

Powered by [FAST](#) © Elsevier 2007

[Home](#) | [Login](#) | [Logout](#) | [Access Information](#) | [Alerts](#) |

Welcome United States Patent and Trademark Office

□ Search Results

[BROWSE](#)[SEARCH](#)[IEEE XPLORE GUIDE](#)

Results for "(((multicarrier<in>metadata) <and> (symbol pattern<in>metadata))) <and>..."

e-mail

Your search matched **0** documents.A maximum of **100** results are displayed, **25** to a page, sorted by **Relevance** in **Descending** order.

» Search Options

[View Session History](#)[New Search](#)

Modify Search

((((multicarrier<in>metadata) <and> (symbol pattern<in>metadata))) <and> (pyr >

Search☐ Check to search only within this results setDisplay Format: ☒ Citation ☐ Citation & Abstract

» Key

IEEE JNL IEEE Journal or Magazine

IET JNL IET Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IET CNF IET Conference Proceeding

IEEE STD IEEE Standard

No results were found.

Please edit your search criteria and try again. Refer to the Help pages if you need assistance.

Indexed by
 Inspec®[Help](#) [Contact Us](#) [Privacy &](#)

© Copyright 2006 IEEE -



Welcome United States Patent and Trademark Office

☐ Search Results

BROWSE

SEARCH

IEEE XPLORE GUIDE

Results for "(symbol pattern<in>metadata)"
 Your search matched **14** of **1568664** documents.

☒ e-mail

A maximum of **100** results are displayed, **25** to a page, sorted by **Relevance** in **Descending** order.

» Search Options

[View Session History](#)
[New Search](#)

Modify Search

☐ Check to search only within this results set

 Display Format: ☒ Citation ☐ Citation & Abstract

» Key

IEEE JNL IEEE Journal or Magazine

IET JNL IET Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IET CNF IET Conference Proceeding

IEEE STD IEEE Standard

 [Select All](#) [Deselect All](#)

- ☐ **1. Vector signal and digital filter processors in character recognition**
 King, G.A.; Picton, P.;
Character Recognition and Applications, IEE Colloquium on
 2 Oct 1989 Page(s):1/1 - 1/6
[AbstractPlus](#) | Full Text: [PDF](#)(212 KB) IET CNF

- ☐ **2. A robust timing and frequency synchronization for OFDM systems**
 Hlaing Minn; Bhargava, V.K.; Letaief, K.B.;
Wireless Communications, IEEE Transactions on
 Volume 2, Issue 4, Jul 2003 Page(s):822 - 839
 Digital Object Identifier 10.1109/TWC.2003.814346
[AbstractPlus](#) | [References](#) | Full Text: [PDF](#)(895 KB) IEEE JNL
[Rights and Permissions](#)

- ☐ **3. Limiter discriminator detection of M-ary FSK signals**
 Fonseka, J.P.;
Communications, Speech and Vision, IEE Proceedings I
 Volume 137, Issue 5, Oct. 1990 Page(s):265 - 272
[AbstractPlus](#) | Full Text: [PDF](#)(448 KB) IET JNL

- ☐ **4. Pilot-symbol aided channel estimation in spatially correlated multiuser M channels**
 Wang, J.; Araki, K.;
Vehicular Technology Conference, 2004. VTC2004-Fall, 2004 IEEE 60th
 Volume 1, 26-29 Sept. 2004 Page(s):33 - 37 Vol. 1
 Digital Object Identifier 10.1109/VETECF.2004.1399912
[AbstractPlus](#) | Full Text: [PDF](#)(550 KB) IEEE CNF
[Rights and Permissions](#)

- ☐ **5. An SIR estimation method adequate to high data rate packet communication system**
 Seok Ho Won; Whan Woo Kim; Jaemin Ahn; Deuk-Su Lyu;
Communication Systems, 2002. ICCS 2002. The 8th International Conference
 Volume 2, 25-28 Nov. 2002 Page(s):1120 - 1124 vol.2
[AbstractPlus](#) | Full Text: [PDF](#)(317 KB) IEEE CNF
[Rights and Permissions](#)

6. **A method to reduce the peak power with signal space expansion (ESPAR system)**
Sumasu, A.; Ue, T.; Uesugi, M.; Kato, O.; Homma, K.;
[Vehicular Technology Conference Proceedings, 2000. VTC 2000-Spring Tokyo](#)
Volume 1, 15-18 May 2000 Page(s):405 - 409 vol.1
Digital Object Identifier 10.1109/VETECS.2000.851488
[AbstractPlus](#) | Full Text: [PDF](#)(304 KB) IEEE CNF
[Rights and Permissions](#)
7. **Multi-module network associating patterns and symbols with attention m**
Hattori, Y.; Furuhashi, T.; Uchikawa, Y.;
[Knowledge-Based Intelligent Electronic Systems, 1997. KES '97. Proceedings. International Conference on](#)
Volume 1, 21-23 May 1997 Page(s):148 - 153 vol.1
Digital Object Identifier 10.1109/KES.1997.616878
[AbstractPlus](#) | Full Text: [PDF](#)(456 KB) IEEE CNF
[Rights and Permissions](#)
8. **Universal Compression of Markov and Related Sources Over Arbitrary AI**
Dhulipala, A.K.; Orlitsky, A.;
[Information Theory, IEEE Transactions on](#)
Volume 52, Issue 9, Sept. 2006 Page(s):4182 - 4190
Digital Object Identifier 10.1109/TIT.2006.880013
[AbstractPlus](#) | Full Text: [PDF](#)(400 KB) IEEE JNL
[Rights and Permissions](#)
9. **Limit results on pattern entropy**
Orlitsky, A.; Santhanam, N.P.; Viswanathan, K.; Junan Zhang;
[Information Theory, IEEE Transactions on](#)
Volume 52, Issue 7, July 2006 Page(s):2954 - 2964
Digital Object Identifier 10.1109/TIT.2006.876351
[AbstractPlus](#) | Full Text: [PDF](#)(272 KB) IEEE JNL
[Rights and Permissions](#)
10. **Speaking of infinity [i.i.d. strings]**
Orlitsky, A.; Santhanam, N.P.;
[Information Theory, IEEE Transactions on](#)
Volume 50, Issue 10, Oct. 2004 Page(s):2215 - 2230
Digital Object Identifier 10.1109/TIT.2004.834734
[AbstractPlus](#) | [References](#) | Full Text: [PDF](#)(392 KB) IEEE JNL
[Rights and Permissions](#)
11. **Innovation and pattern entropy of stationary processes**
Orlitsky, A.; Santhanam, N.P.; Viswanathan, K.; Zhang, J.;
[Information Theory, 2005. ISIT 2005. Proceedings. International Symposium o](#)
4-9 Sept. 2005 Page(s):2203 - 2207
Digital Object Identifier 10.1109/ISIT.2005.1523738
[AbstractPlus](#) | Full Text: [PDF](#)(201 KB) IEEE CNF
[Rights and Permissions](#)
12. **A review of a hybrid neural network: Kohonen learning vector quantizati**
counterpropagation
Kong, J.H.L.; Martin, G.P.M.D.;
[Neural Networks, 1995. Proceedings., IEEE International Conference on](#)
Volume 3, 27 Nov.-1 Dec. 1995 Page(s):1397 - 1402 vol.3
Digital Object Identifier 10.1109/ICNN.1995.487363
[AbstractPlus](#) | Full Text: [PDF](#)(440 KB) IEEE CNF
[Rights and Permissions](#)

- ☐ **13. Self-organizingly emerging activeness architecture realized by coherent**
Hirose, A.;
Artificial Neural Networks, 1999. ICANN 99. Ninth International Conference on
470)
Volume 2, 7-10 Sept. 1999 Page(s):726 - 731 vol.2
[AbstractPlus](#) | Full Text: [PDF](#)(436 KB) IET CNF
- ☐ **14. FOHDEL-a new fuzzy language for online handwriting recognition**
Malaviya, A.; Peters, L.; Theissinger, M.;
Fuzzy Systems, 1994. IEEE World Congress on Computational Intelligence...F
Third IEEE Conference on
26-29 June 1994 Page(s):624 - 629 vol.1
Digital Object Identifier 10.1109/FUZZY.1994.343659
[AbstractPlus](#) | Full Text: [PDF](#)(384 KB) IEEE CNF
[Rights and Permissions](#)

Indexed by
 Inspec

[Help](#) [Contact Us](#) [Privacy &](#)

© Copyright 2006 IEEE -



☐ AbstractPlus

[BROWSE](#)

[SEARCH](#)

[IEEE XPLORE GUIDE](#)

[View Search Results](#)

☒ e-

Access this document

Full Text: [PDF](#) (304 KB)

Download this citation

Choose [Citation & Abstract](#)

Download [ASCII Text](#)

[Learn More](#)

[Rights and Permissions](#)

[Learn More](#)

A method to reduce the peak power with signal space expansion (ESPAR) for OFDM system

Sumasu, A. Ue, T. Uesugi, M. Kato, O. Homma, K.

Matsushita Commun. Ind. Co. Ltd., Kanagawa, Japan;

This paper appears in: [Vehicular Technology Conference Proceedings, 2000. VTC 2000 IEEE 51st](#)

Publication Date: 15-18 May 2000

Volume: 1

On page(s): 405 - 409 vol.1

Number of Pages: 3 vol. (Ivi+2577)

Meeting Date: 05/15/2000 - 05/18/2000

Location: Tokyo

INSPEC Accession Number: 6671051

Digital Object Identifier: 10.1109/VETECS.2000.851488

Posted online: 2002-08-06 23:12:01.0

Abstract

OFDM (orthogonal frequency division multiplexing) is an effective technique for high data transmission. However, the OFDM system has a problem with the peak to average power ratio (PAPR) very high. A high PAPR can cause severe distortion when transmitted through a nonlinear device because extreme power amplifier specification is required, high power consumption and high cost are required. We propose a new method called ESPAR (Expansion of the signal Space for Power Reduction) in order to reduce the peak power. ESPAR expands the signal space by modulating all subcarriers and not modulating the other subcarriers. The proposed system selects the subcarriers with low signal power in the expanded signal space and transforms data sequences to the subcarriers. The characteristics of the proposed system by computer simulation and show the advantage of the proposed system.

Index Terms

Inspec

Controlled Indexing

[OFDM modulation](#) [land mobile radio](#) [multimedia communication](#) [power amplifiers](#) [radiofrequency amplifiers](#)

Non-controlled Indexing

[ESPAR](#) [OFDM system](#) [computer simulation](#) [data sequences](#) [distortion](#) [high power consumption](#) [low signal power](#) [multimedia communication system](#) [nonlinear device](#) [orthogonal frequency division multiplexing](#) [power reduction](#) [peak to average power ratio](#) [power amplifier specification](#) [signal space expansion](#) [subcarrier modulation](#) [symbol patterns](#)

Author Keywords

Not Available

References

No references available on IEEE Xplore.

Citing Documents

No citing documents available on IEEE Xplore.

[View Search Results](#)